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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/666,142	09/17/2003	Stefano Sivero	ATM-249	8212
3897			EXAMINER	
SCHNECK & SCHNECK P.O. BOX 2-E			COX, CASSANDRA F	
SAN JOSE, CA 95109-0005			ART UNIT	PAPER NUMBER
			2816	
			MAIL DATE	DELIVERY MODE
			09/26/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	•	$ \mathcal{I}\mathcal{H} $			
	Application No.	Applicant(s)			
	10/666,142	SIVERO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Cassandra Cox	2816			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re- tiod will apply and will expire SIX (6) MON atute, cause the application to become AB	CATION. Peply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 20	6 July 2005.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	er <i>Ex par</i> te Quayle, 1935 C.D.	. 11, 453 O.G. 213.			
Disposition of Claims	r .				
4)⊠ Claim(s) <u>1-16</u> is/are pending in the applicati	ion				
4a) Of the above claim(s) is/are without					
5)⊠ Claim(s) <u>8-10 and 12-16</u> is/are allowed.	arawii iioiii oonsiderallon.				
6)⊠ Claim(s) <u>1</u> is/are rejected.					
7)⊠ Claim(s) <u>2-7 and 11</u> is/are objected to.	•				
8) Claim(s) are subject to restriction and	d/or election requirement.				
Application Papers					
9) The specification is objected to by the Exam	iner				
10)⊠ The drawing(s) filed on <u>17 September 2003</u>		l objected to by the Examiner			
Applicant may not request that any objection to t					
Replacement drawing sheet(s) including the corr	- · ·	· ·			
11) The oath or declaration is objected to by the		• •			
Priority under 35 U.S.C. § 119	,				
12)⊠ Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C. §	119(a)-(d) or (f).			
a)⊠ All b) Some * c) None of:	onto have have received				
1.		anliantion No			
3. Copies of the certified copies of the p	•	•			
application from the International Bure	• •	received in this National Stage			
* See the attached detailed Office action for a l		received.			
		•			
•					
Attachment(s)		•			
1) Notice of References Cited (PTO-892)		ummary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08))/Mail Date formal Patent Application			
Paper No(s)/Mail Date <u>12/18/03;12/23/03;7/26/05</u> .	6) Other:				

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 12/23/03 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Drawings

2. Figure 1, 2A, 2B, 3A, 3B, and 4 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

3. Claims 2, 7, and 11 are objected to because of the following informalities:
In line 17 of claim 2 after the term "second signal" insert the phrase --, and
the third signal--.

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In line 21 of claim 7 after the first occurrence of the word "signal" insert the phrase --, and the third signal--.

In line 35 of claim 11 after the first occurrence of the word "signal" insert the phrase --, and the third signal--.

Claims 7 and 11 are also objected to because they appear to disclose the level detector, first and second logic NOR gates, the set/reset latch, the first logic NAND gate and the third logic NOR gate as being in addition to the edge detector means rather than being a part of the edge detector means. The same applies to the pull-up and pull-down transistors with respect to the output driver means.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Pilling et al. (U.S. Patent No. 6,130,563).

In reference to claim 1, Pilling discloses in Figure 2 a circuit comprising an edge detector means (11-16) for sensing a rising edge and a falling edge of the clock signal (V_{IN}) and generating respective pull-up and pull-down control signals in response thereto; and an output driver means (20, 21), connected to the edge

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detector means (11-16) to receive the control signals therefrom, for recovering high and low logical levels of the clock signal (V_{IN}).

Allowable Subject Matter

- 6. Claims 7-16 are allowed.
- 7. Claims 2-6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter: Claims 2-5 would be allowable because the closest prior art of record fails to disclose an edge detector comprising a level detector means, a first logic NOR gate, a second logic Nor gate, a set/reset latch, a first logic NAND gate, and a third logic NOR gate in combination with the rest of the limitations of the base claims and any intervening claims. Claim 6 would be allowable because the closest prior art of record fails to disclose a circuit wherein the drain of the pull-up PMOS transistor is coupled to the drain of the NMOS pull-down transistor and to the clock signal in combination with the rest of the limitations of the base claims and any intervening claims.
- 9. The following is an examiner's statement of reasons for allowance: Claims 7-14 are allowed because the closest prior art of record fails to disclose an edge detector comprising a level detector means, a first logic NOR gate, a second logic Nor gate, a set/reset latch, a first logic NAND gate, and a third logic NOR gate in combination with the rest of the limitations of the base claims and any intervening claims. Claims 15-16 are allowed because the closest prior art of

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record fails to disclose a method for regenerating a clock signal which includes generating a pull-up control signal in response to the detecting of the rise edge of the clock signal in combination with the rest of the limitations of the base claims and any intervening claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cassandra Cox whose telephone number is 571-272-1741. The examiner can normally be reached on Monday-Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Richards can be reached on 571-272-1736. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Cassandra Cox September 16, 2007